BRUHATH BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION, BENGALURU

1st & Final Bill

Name of Work: - Improvements to roads and drains at Muneshwara Nagara, Near Doddamma devi temple, kattigenahalli village and Surrounding Area in Ward No.05

Estimated Cost:- 88.00 Lakhs

PRE-MEASUREMENT SHEET

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Name of Work : Construction of RCC Drain & RCC Culverts, near OM Circle main roads and surrounding area at Kattigenahalli Village in Ward No.05

PRE MEASUREMENTS

Item No	Discription of Item	No	Length	B1	B2	Breadth (Avg)	Depth	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification								
	For RCC Drain								
	Muneshwara Nagara								
	4th Cross Road From 1st Main Road to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	16.70	1.10	1.10	1.10	0.90	16.53	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	7.20	1.10	1.10	1.10	0.90	7.13	
	LHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	20.00	1.10	1.10	1.10	0.90	19.80	
	1st Main Road From 4th cross to 1st cross								
	LHS	1	19.80	1.10	1.10	1.10	0.95	20.69	
		1	30.00	1.10	1.10	1.10	0.95	31.35	
		1	27.00	1.10	1.10	1.10	0.95	28.22	
	Cross road From 4th cross								
	RHS	1	18.60	1.10	1.10	1.10	1.00	20.46	
	Cross road-1 from 3rd Cross to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	18.30	1.10	1.10	1.10	0.90	18.12	
		1	3.70	1.10	1.10	1.10	0.90	3.66	
		1	1.80	1.10	1.10	1.10	0.80	1.58	
	Cross road-2 from 3rd Cross to Dead End								
	LHS	1	30.00	1.10	1.10	1.10	0.80	26.40	
		1	2.00	1.10	1.10	1.10	0.80	1.76	
		1	18.40	1.10	1.10	1.10	0.60	12.14	
		1	24.80	1.10	1.10	1.10	0.80	21.82	
	RHS	1	30.00	1.10	1.10	1.10	0.80	26.40	
		1	2.00	1.10	1.10	1.10	0.75	1.65	
		1	9.00	1.10	1.10	1.10	0.60	5.94	
		1	9.40	1.10	1.10	1.10	0.80	8.27	
		1	9.10	1.10	1.10	1.10	0.60	6.01	
		1	15.30	1.10	1.10	1.10	0.75	12.62	
	Doddamma Devi Temple Opposite Road								
	From Main Road to Dead End								
	LHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	13.80	1.10	1.10	1.10	0.80	12.14	
	Doddamma Devi Temple Main Road From Ashwathkatte								
	LHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	12.40	1.10	1.10	1.10	0.90	12.28	
	Cross Road-1 From 2nd B Cross								
	LHS	1	30.00	1.10	1.10	1.10	0.85	28.05	
		1	30.00	1.10	1.10	1.10	0.80	26.40	
		1	13.40	1.10	1.10	1.10	0.75	11.06	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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	RHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	10.00	1.10	1.10	1.10	0.70	7.70	
	Cross Road-2 From 2nd B Cross								
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	8.00	1.10	1.10	1.10	0.90	7.92	
	For RCC Culvert								
	Culverts at 3rd cross road								
	Culvert-1	1	4.35	2.00	2.00	2.00	0.90	7.83	
	Culvert-2	1	4.90	2.00	2.00	2.00	0.90	8.82	
	Culvert-3	1	4.90	2.00	2.00	2.00	0.90	8.82	
	For CC Road								
	4th cross road from 1st main Road								
		1	15.00	5.70	5.00	5.35	0.30	24.08	
		1	15.00	5.00	5.05	5.03	0.30	22.61	
		1	15.00	5.05	5.25	5.15	0.30	23.18	
		1	15.00	5.25	4.80	5.03	0.25	18.84	
		1	15.00	4.80	4.55	4.68	0.30	21.04	
		1	15.00	4.55	4.45	4.50	0.30	20.25	
		1	15.00	4.45	4.40	4.43	0.30	19.91	
		1	12.30	4.40	4.10	4.25	0.25	13.07	
		1	13.40	7.05	6.70	6.88	0.25	23.03	
		1	6.30	8.10	8.00	8.05	0.25	12.68	
		1	15.00	7.35	7.45	7.40	0.30	33.30	
		1	15.00	7.45	7.10	7.28	0.30	32.74	
		1	15.00	7.10	6.75	6.93	0.30	31.16	
		1	6.20	6.75	5.85	6.30	0.25	9.77	
	Deductions								
	Transform	-1	1.00	1.50	1.50	1.50	0.30	-0.45	
	Trees Area	-3	0.30	0.30	0.30	0.30	0.30	-0.08	
		-6	0.20	0.20	0.20	0.20	0.30	-0.07	
		-1	0.60	0.90	0.90	0.90	0.30	-0.16	
							Present Qty =	**1142.26**	**Cum**
							Limited to =	**1137.70**	**Cum**

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Banashankari Sub-Division

Item No	Discription of Item	No	Length	B1	B2	Breadth (Avg)	Depth	Qty	Unit
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	For RCC Drain								
	Muneshwara Nagara								
	4th Cross Road From 1st Main Road to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	16.70	1.10	1.10	1.10	0.15	2.76	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	7.20	1.10	1.10	1.10	0.10	0.79	
	LHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	20.00	1.10	1.10	1.10	0.15	3.30	
	1st Main Road From 4th cross to 1st cross								

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LHS	1	19.80	1.10	1.10	1.10	0.15	3.27	
	1	30.00	1.10	1.10	1.10	0.10	3.30	
	1	27.00	1.10	1.10	1.10	0.15	4.46	
Cross road From 4th cross								
RHS	1	18.60	1.10	1.10	1.10	0.15	3.07	
Cross road-1 from 3rd Cross to Dead End								
RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	18.30	1.10	1.10	1.10	0.10	2.01	
	1	3.70	1.10	1.10	1.10	0.10	0.41	
	1	1.80	1.10	1.10	1.10	0.10	0.20	
Cross road-2 from 3rd Cross to Dead End								
LHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	2.00	1.10	1.10	1.10	0.15	0.33	
	1	18.40	1.10	1.10	1.10	0.10	2.02	
	1	24.80	1.10	1.10	1.10	0.15	4.09	
RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	2.00	1.10	1.10	1.10	0.10	0.22	
	1	9.00	1.10	1.10	1.10	0.15	1.49	
	1	9.40	1.10	1.10	1.10	0.10	1.03	
	1	9.10	1.10	1.10	1.10	0.15	1.51	
	1	15.30	1.10	1.10	1.10	0.10	1.68	
Doddamma Devi Temple Opposite Road								
From Main Road to Dead End								
LHS	1	30.00	1.10	1.10	1.10	0.10	3.30	
	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	13.80	1.10	1.10	1.10	0.15	2.28	
Doddamma Devi Temple Main Road From Ashwathkatte								
LHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	12.40	1.10	1.10	1.10	0.15	2.05	
Cross Road-1 From 2nd B Cross								
LHS	1	30.00	1.10	1.10	1.10	0.10	3.30	
	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	13.40	1.10	1.10	1.10	0.15	2.21	
RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	10.00	1.10	1.10	1.10	0.15	1.65	
Cross Road-2 From 2nd B Cross								
	1	30.00	1.10	1.10	1.10	0.15	4.95	
	1	8.00	1.10	1.10	1.10	0.10	0.88	
For RCC Culvert								
Culverts at 3rd cross road								
Culvert-1	1	4.35	2.00	2.00	2.00	0.15	1.31	
Culvert-2	1	4.90	2.00	2.00	2.00	0.15	1.47	
Culvert-3	1	4.90	2.00	2.00	2.00	0.15	1.47	
For CC Road								
4th cross road from 1st main Road								
	1	15.00	5.70	5.00	5.35	0.15	12.04	
	1	15.00	5.00	5.05	5.03	0.15	11.31	
	1	15.00	5.05	5.25	5.15	0.10	7.73	
	1	15.00	5.25	4.80	5.03	0.15	11.31	
	1	15.00	4.80	4.55	4.68	0.15	10.52	
	1	15.00	4.55	4.45	4.50	0.10	6.75	
	1	15.00	4.45	4.40	4.43	0.15	9.96	
	1	12.30	4.40	4.10	4.25	0.15	7.84	
	1	13.40	7.05	6.70	6.88	0.10	9.21	

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		1	6.30	8.10	8.00	8.05	0.10	5.07	
		1	15.00	7.35	7.45	7.40	0.15	16.65	
		1	15.00	7.45	7.10	7.28	0.10	10.91	
		1	15.00	7.10	6.75	6.93	0.15	15.58	
		1	6.20	6.75	5.85	6.30	0.10	3.91	
	Deductions								
	Transform	-1	1.00	1.50	1.50	1.50	0.15	-0.23	
	Trees Area	-3	0.30	0.30	0.30	0.30	0.15	-0.04	
		-6	0.20	0.20	0.20	0.20	0.15	-0.04	
		-1	0.60	0.90	0.90	0.90	0.15	-0.08	
						Present Qty =		**273.31**	**Cum**

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub-Division

Item No	Description of Item	No	No of Bars	Cutting Length of Bar	Total Length of Bar in Mtr	Weight/ Mtr in Kgs		Total Wt in Kg's	Unit
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as per specifications								
	For RCC Drain								
	4th Cross Road								
	RHS								
	Total length of drain =173.90								
	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	1399	2.00	2798.00	0.62		1734.76	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	173.90	2782.40	0.62		1725.09	
	LHS								
	Total length of drain =50.00 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	410	2.10	861.00	0.62		533.82	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	17	50.00	850.00	0.62		527.00	
	1st Main Road From 4th cross								
	LHS								
	Total length of drain =19.80								
	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	165	2.00	330.00	0.62		204.60	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	19.80	316.80	0.62		196.42	
	Total length of drain =30.00								
	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	255	2.40	612.00	0.62		379.44	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	20	30.00	600.00	0.62		372.00	
	Total length of drain =27.00								

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	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	225	2.40	540.00	0.62		334.80	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	20	27.00	540.00	0.62		334.80	
	Cross road-1 from 3rd Cross								
	RHS								
	Total length of drain = 83.80 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	682	2.20	1500.40	0.62		930.25	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	18	83.80	1508.40	0.62		935.21	
	Cross road-2 from 3rd Cross								
	LHS								
	Total length of drain =75.20 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	578	2.00	1156.00	0.62		716.72	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	18	75.20	1353.60	0.62		839.23	
	RHS								
	Total length of drain =74.80 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	610	1.90	1159.00	0.62		718.58	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	74.80	1196.80	0.62		742.02	
	Doddamma Devi Temple Opposite Road								
	LHS								
	Total length of drain =73.80 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	610	2.00	1220.00	0.62		756.40	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	73.80	1180.80	0.62		732.10	
	Doddamma Devi Temple Main Road								
	LHS								
	Total length of drain =42.40 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	355	2.10	745.50	0.62		462.21	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	17	42.40	720.80	0.62		446.90	
	Cross Road-1 From 2nd B Cross								
	RHS								
	Total length of drain =70.00 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	578	2.00	1156.00	0.62		716.72	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	70.00	1120.00	0.62		694.40	
	LHS								
	Total length of drain =73.40 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	602	2.00	1204.00	0.62		746.48	
	Distrubution Bars 10mm dia@125mm c/c								

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	0.62kg/mtr	1	16	73.40	1174.40	0.62		728.13	
	Cross Road-2 From 2nd B Cross								
	RHS								
	Total length of drain =38.00 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	320	2.00	640.00	0.62		396.80	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	38.00	608.00	0.62		376.96	
	Double Mat								
	For RCC Culverts								
	Culverts at 3rd cross road								
	Total length of Culvert-1 =4.35 Mtr								
	Main Bars 12mm dia @ 125mm c/c								
	0.89kg/mtr	2	35	2.60	182.00	0.89		161.98	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	2	21	4.35	182.70	0.62		113.27	
	Total length of Culvert-2 =4.90 Mtr								
	Main Bars 12mm dia @ 125mm c/c								
	0.89kg/mtr	2	40	2.60	208.00	0.89		185.12	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	2	22	4.90	215.60	0.62		133.67	
	Total length of Culvert-3 =4.90 Mtr								
	Main Bars 12mm dia @ 125mm c/c								
	0.89kg/mtr	2	40	2.60	208.00	0.89		185.12	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	2	22	4.90	215.60	0.62		133.67	
								18194.66	**Kgs**
						Present Qty=		**18.19**	**Tonne**

Assistant Engineer
Ward No 05

Assistant Executive Engineer
Byatarayanapura Sub-Division

Item No	Discription of Item	No	Length	B1	B2	Breadth (Avg)	Depth	Qty	Unit
7	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.								
	For CC Road								
	4th cross road from 1st main Road								
		1	15.00	5.70	5.00	5.35		80.25	
		1	15.00	5.00	5.05	5.03		75.38	
		1	15.00	5.05	5.25	5.15		77.25	
		1	15.00	5.25	4.80	5.03		75.38	
		1	15.00	4.80	4.55	4.68		70.13	
		1	15.00	4.55	4.45	4.50		67.50	
		1	15.00	4.45	4.40	4.43		66.38	
		1	12.30	4.40	4.10	4.25		52.28	
		1	13.40	7.05	6.70	6.88		92.13	
		1	6.30	8.10	8.00	8.05		50.72	
		1	15.00	7.35	7.45	7.40		111.00	
		1	15.00	7.45	7.10	7.28		109.13	
		1	15.00	7.10	6.75	6.93		103.88	
		1	6.20	6.75	5.85	6.30		39.06	

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	Deductions								
	Transform	-1	1.00	1.50	1.50	1.50		-1.50	
	Trees Area	-3	0.30	0.30	0.30	0.30		-0.27	
		-6	0.20	0.20	0.20	0.20		-0.24	
		-1	0.60	0.90	0.90	0.90		-0.54	
							Present Qty=	**1067.88**	**Sqm**
							Qty Limited to	**979.00**	**Sqm**

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byrasandra Sub-Division

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